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      10      19      28      37      46      55
5 'TGAT GCT CTG GGC TGT CTT CAC ACT TCA TTT GGG TTT CCT GCT TGC TCT GAG CTC

      64      73      82      91      100     109
TAC AGG GGA ATG GGG TAG AGA TGG GAG CCA CCT TGG GTG GAG GGT GGG GAA GGT

      118     127     136     145     154     163
ATG TTC TGC CCA CCA CAG GTG TCA TGC TCA CTC AGC CTG ATG CCC AGG CTG CCA
M   F   C   P   P   Q   V   S   C   S   L   S   L   M   P   R   L   P

      172     181     190     199     208     217
AGT ATA AGG CAT TGG CAG GGG CCC AGC CAC CCT GGG TTC CTT GGT CCC CTA TTC
S   I   R   H   W   Q   G   P   S   H   P   G   F   L   G   P   L   F

      226     235     244     253     262     271
CCC ATC TGC TCC CTG CAG TGG CCC CAT GGG TTC TCT GCC ATC TTC CCA GGC CTG
P   I   C   S   L   Q   W   P   H   G   F   S   A   I   F   P   G   L

      280     289     298     307     316     325
CTG GAT GTG TAT GGA TTT GAA TCA TTT CCT GAC AAC AGT CTG GAA CAG TTG TGC
L   D   V   Y   G   F   E   S   F   P   D   N   S   L   E   Q   L   C

      334     343     352     361     370     379
ATC AAC TAC GCC AAT GAG AAG CTG CAG CAG CAT TTT GTG GCT CAC TAC CTA AGG
I   N   Y   A   N   E   K   L   Q   Q   H   F   V   A   H   Y   L   R

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(57) Abstract

The invention provides a human myosin heavy chain homolog (MHCH) and polynucleotides which identify and encode MHCH. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating, or preventing disorders associated with expression of MHCH.

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